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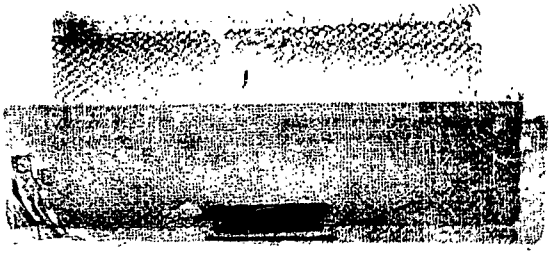

PROGRESS REPORT NO. 21

ENGINEERING REPORT

ON

RADIO WAVE ANALYSIS CENTRAL

Contract No. W28-099-ac-163
For the Month of May, 1948

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CASE: 8-12-78
DIRECTION FINDER DIVISION

FEDERAL TELECOMMUNICATIONS LABORATORIES, INC.

500 WASHINGTON AVENUE

NUTLEY 10, NEW JERSEY

Prepared by: W. C. LANE
Approved by: A. G. RICHARDSON

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Progress Report No.21

RADIO WAVE ANALYSIS CENTRAL

Contract No.W28-099-ac-163

For the Month of May, 1948

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LIST OF ILLUSTRATIONS

	Photo No.
I. 15-Mcs. I.F. Amplifiers	9601
II. Console Power Unit	9602
III.Discone Antenna	7587-2

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Progress Report No. 21

RADIO WAVE ANALYSIS CENTRAL

I. STATUS OF CONTRACT

Item 1, the study phase of the contract, was completed in August 1947. Watson Laboratories then authorized expenditure of a sum not to exceed Twenty-five Thousand Dollars ($25,000) to develop essential components required for Item 2 of the contract (the constructional, or experimental, phase). This was followed by a similar authorization of Twenty-five Thousand Dollars ($25,000) in March 1948. By the latter part of April 1948, these funds had been expended. Cost estimates applicable to the balance of the contract had been previously submitted by F. T. L. to Watson Laboratories, but no contract modifications had resulted. It was, therefore, obligatory for F.T.L. to halt expenditures on the contract. On May 10, 1948, all engineering and design work was stopped and the personnel were assigned to short-term activities on other contracts expiring June 30, 1948, in order to expedite delivery of equipment due on those contracts.

Model Shop work on Radio Central parts in process was continued, however, and all orders for material and components from outside suppliers were kept in force, with no "hold" placed on deliveries. These parts are being procured for two operating positions, as outlined in Progress Report No. 19.

In connection with the cost estimates referred to above, a more detailed breakdown of the proposed work was furnished to Watson Laboratories on or about May 19, 1948.

II. RESULTS FOR MAY

The following units were completed:-

(a) Narrow-band 15 mc I.F. strip for intercept receiver.

(b) Narrow-band 15 mc I.F. strip for scanning receiver.

(c) Wide-band 15 mc. I.F. strip for intercept receiver.

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(d) Two console power units.

(e) One discone antenna for 100-216 mc. scanning receiver.

WCL/cdm

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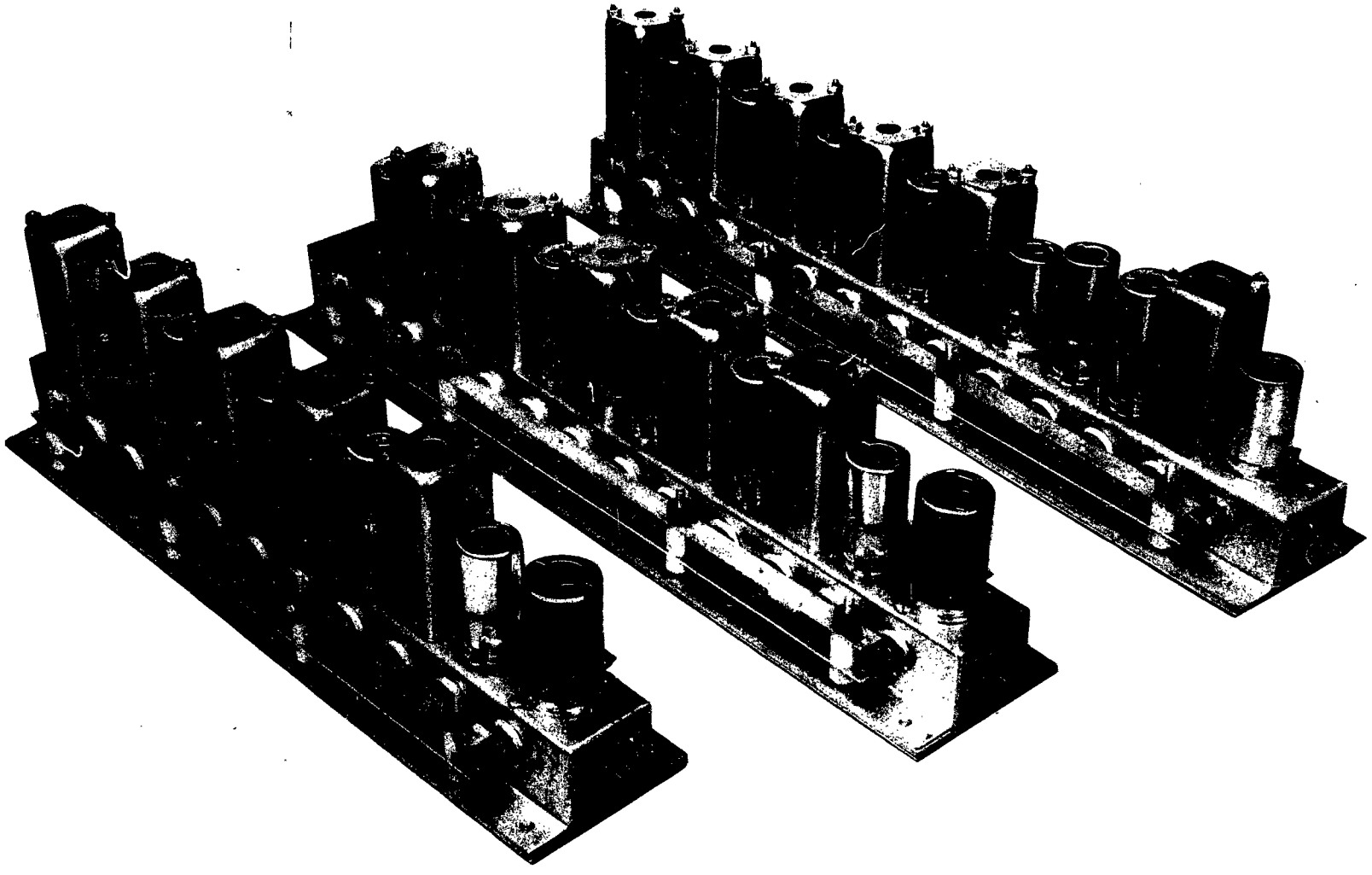

FIGURE 1

15 MC I-F AMPLIFIERS

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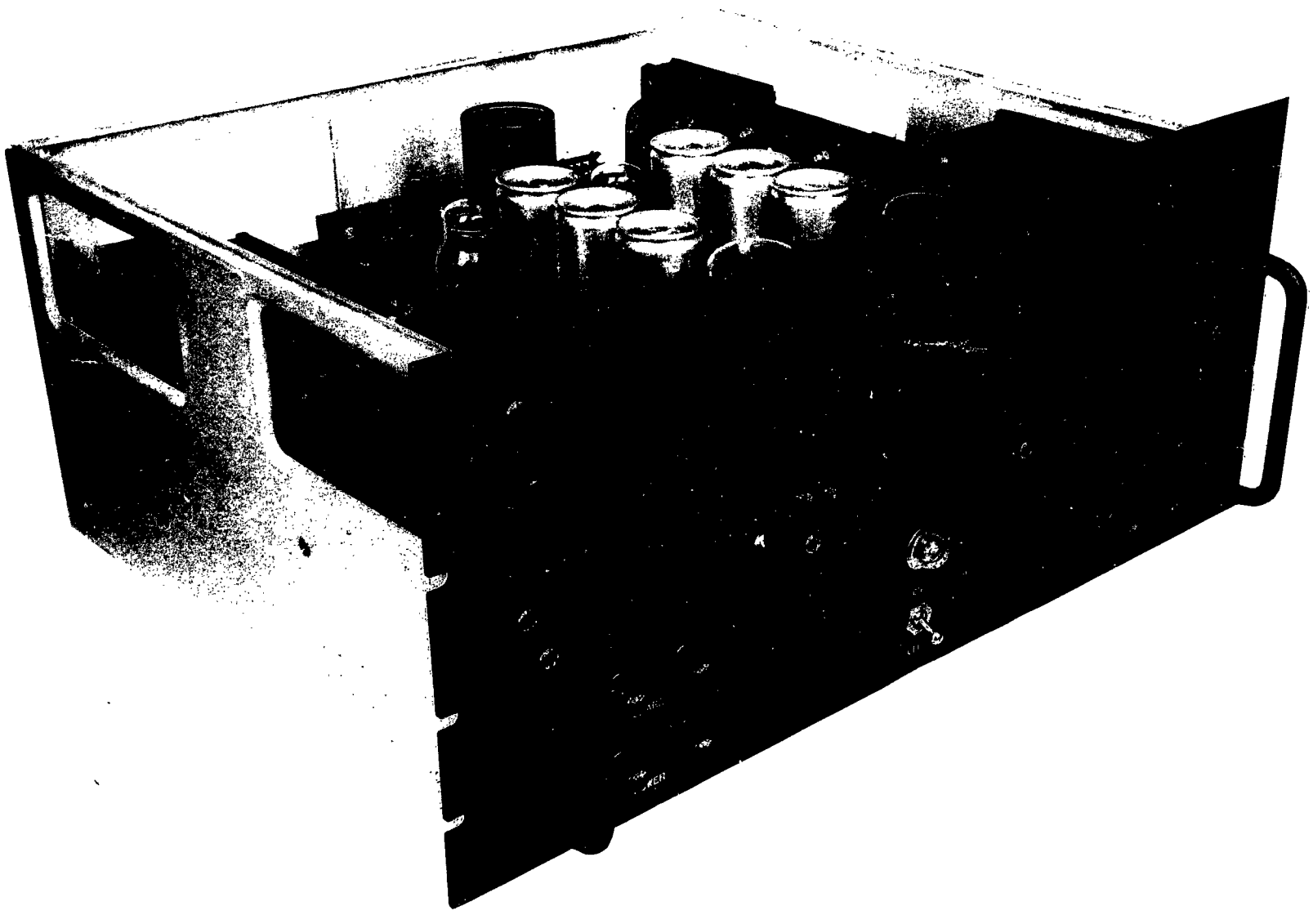

FIGURE 2

CONSOLE POWER UNIT

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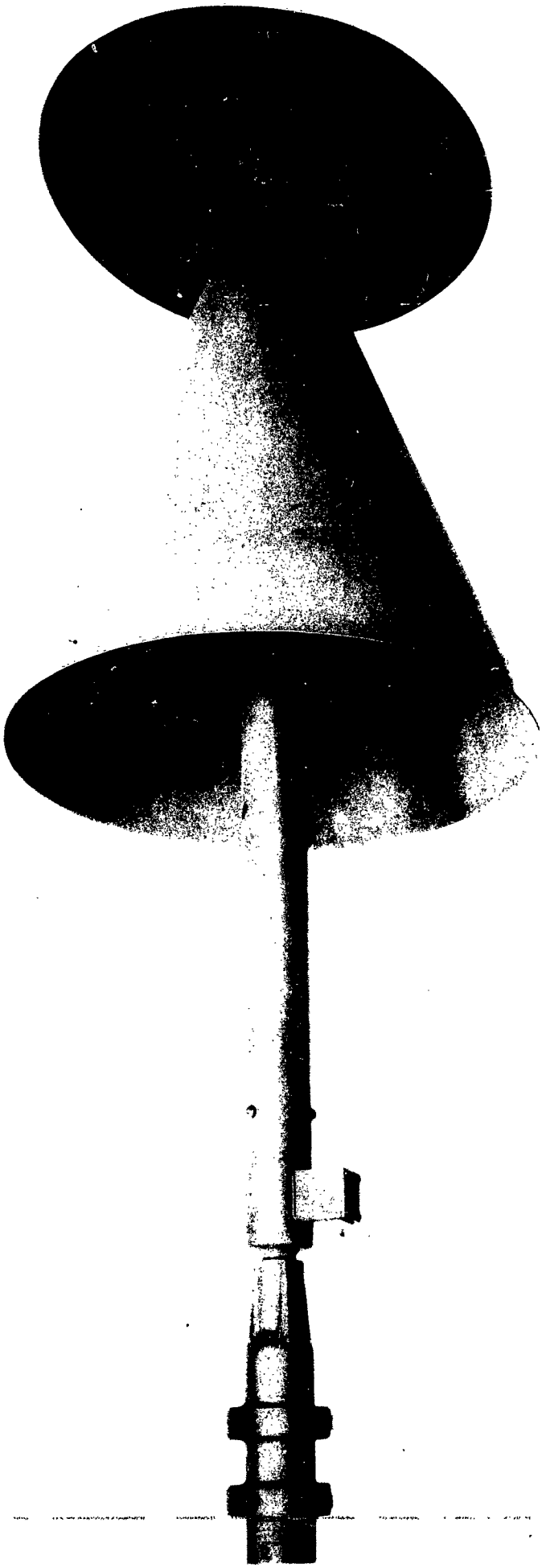

FIGURE 3
DISCONE ANTENNA